

# Overview



**Center for Sponsored Coastal Ocean Research**  
Coastal Ocean Program

**<http://www.cop.noaa.gov>**

Great Lakes Research Issues Workshop

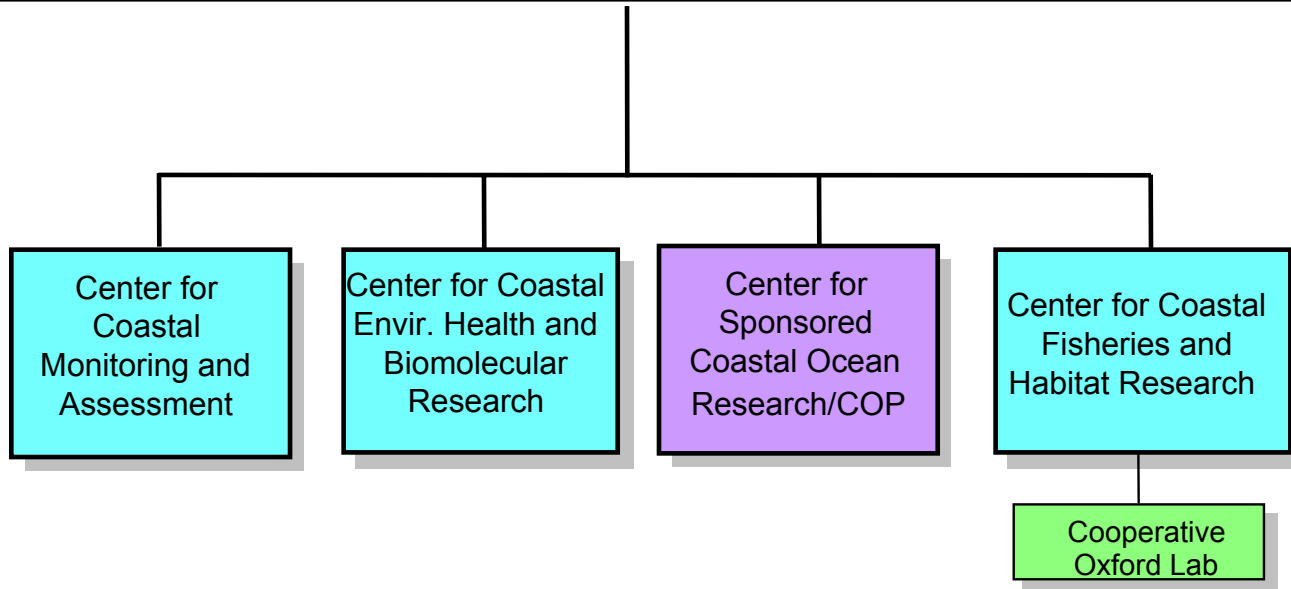
January 20-21, 2003



# Center for Sponsored Coastal Ocean Research Coastal Ocean Program



## National Centers for Coastal Ocean Science



<http://www.cop.noaa.gov>



# Center for Sponsored Coastal Ocean Research Coastal Ocean Program

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**The Coastal Ocean Program (COP) is a federal-academic partnership providing predictive capabilities for managing coastal ecosystems.**

## **Operating Principle**

COP seeks to deliver the highest quality science in time for important coastal policy decisions by supporting high-priority research and interagency initiatives related to NOAA's mission in three goal areas.



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## COP's Goal Areas

Coastal Fisheries Ecosystems

Cumulative Coastal Impacts

Harmful Algal Blooms/Eutrophication



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## Regional Ecosystem Studies Format

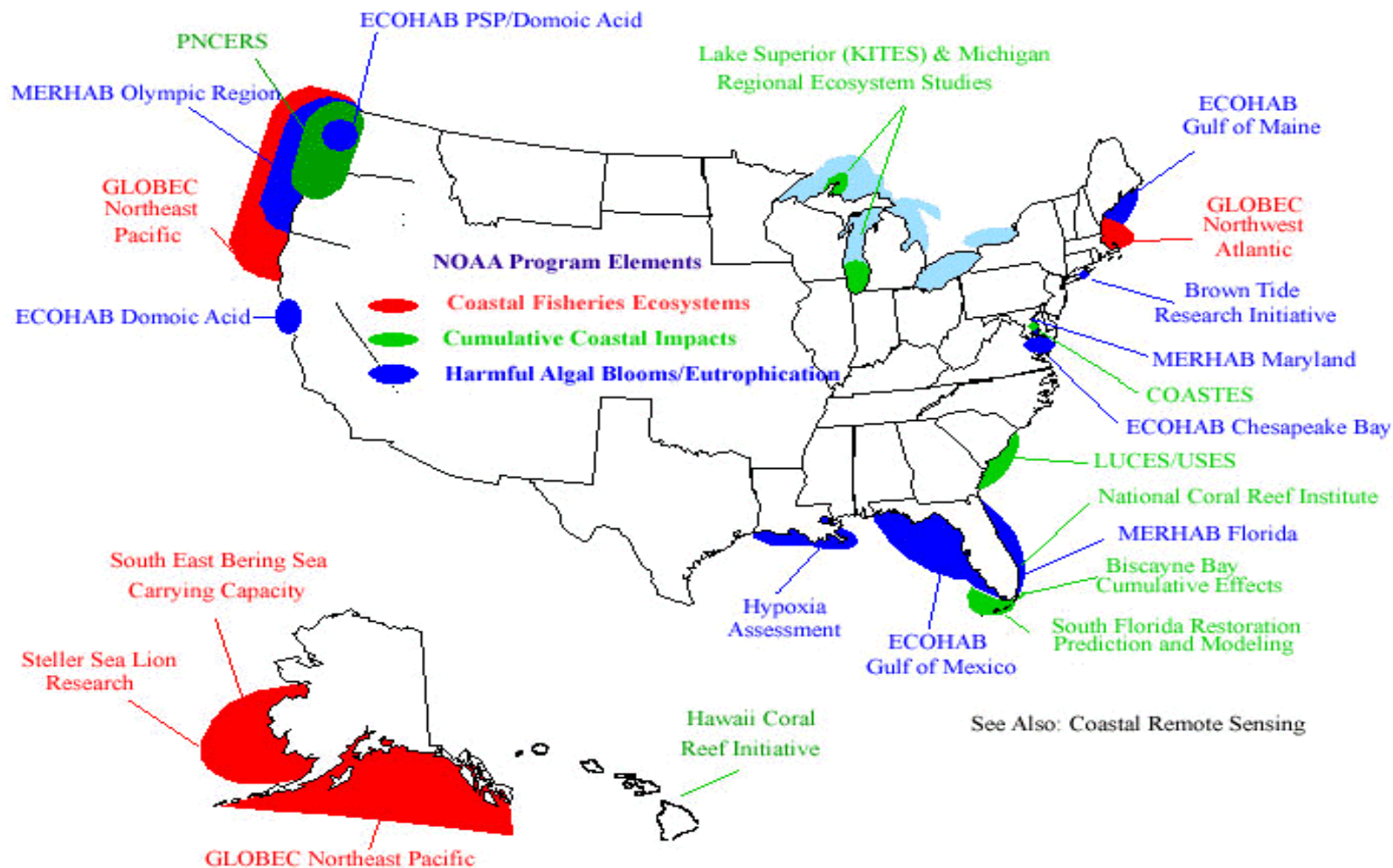
- Support NOAA's Ecosystem & Resource Responsibilities
- Collaboration Between NOAA, Universities, and States
- Multi-Investigator/Disciplinary, Large Scale, Model-Based
- Path Leading to Operational or Management Product
- Tractable Within a 5 Year Period



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## Current Projects





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## Coastal Fisheries Ecosystems

**U.S. Global Ocean Ecosystems Dynamics (GLOBEC)  
U.S. Global Change Research Program**

**Jointly sponsored by NSF and NOAA**

*GOAL: To predict distribution and abundance of commercially valuable species as a result of changes in their physical and biotic environment, and to anticipate how their populations might respond to climate variability*

International GLOBEC initiated by SCOR and IOC in 1991



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## Study Regions and Fisheries Stocks

- Northwest Atlantic: Cod and Haddock
- Northeast Pacific: Salmon
- Bering Sea: Pollock



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## Cumulative Coastal Impacts

CSCOR supports regional studies on the causes and impacts of multiple stresses in the coastal environment. These integrative studies lead to more effective management of coastal resources by:

- Developing scientific indicators of stress in coastal systems
- Predicting impacts of multiple stresses on living marine resources
- Evaluating natural resources in ecological *and* economical terms
- Predicting the outcomes of specific management strategies



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## Cumulative Coastal Impact Projects

- Patuxent River (Chesapeake Bay)
- South Atlantic Bight Estuarine Systems
- Florida Bay/Keys
- Pacific Northwest Coastal Ecosystems
- Coral Reefs (Hawaii/Guam/Fla./Puerto Rico)
- Great Lakes (Michigan/Superior)



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## Harmful Algal Blooms/Eutrophication ECOHAB

(Ecology & Oceanography of Harmful Algal Blooms)

- Long Island Brown Tide, *Aureococcus* (1996-2001)
- Florida NSP/*Karenia brevis* (1997-)
- Gulf of Maine PSP/*Alexandrium* (1997-)
- *Pfiesteria* and Related Organisms (1998-)
- Pacific Coast DAP-ASP/*Pseudo-nitzschia* (1999-)
- Hawaii/Guam Macroalgae (1993-)
- Prevention/Control/Mitigation of HABs (2001-)



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## Harmful Algal Blooms: MERHAB

(Monitoring & Event Response for Harmful Algal Blooms)

- CSCOR leads HAB Federal Event Response Program, HAB Event Response Coordinator works with other NOAA offices and Federal Agencies to assist local jurisdictions in handling HAB events.
- Provide remote sensing capabilities, toxin analysis, aircraft and ships for sampling, identification of researchers to assist in response effort
- Current activities: Olympic region, Quileute Tribe, Florida, Maryland



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## Eutrophication: Gulf of Mexico Hypoxia

- Gulf of Mexico hypoxia research & monitoring funded by COP since 1990
- Since 1993, mid-summer bottom-water hypoxia has been larger than 4,000 square miles. In 1999 it was 8,000 square miles (about size of New Jersey)
- Current activities: modeling, effects on zooplankton, shrimp, fish and other nekton
- Scientific support for NSTC Integrated Assessment of Hypoxia in the Northern Gulf of Mexico



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## Resource Information Delivery

### *Decision Analysis Series*

#### Recent Publications

11. Changes in Pacific Northwest Coastal Ecosystems
12. Guidelines for the Conservation and Restoration of Seagrasses in the United States and Adjacent Waters
13. Bering Sea FOCI Final Report - Fisheries-Oceanography Coordinated Investigations
14. Nutrient Enhanced Coastal Ocean Productivity in the Gulf of Mexico
- 15 – 20. Gulf of Mexico Hypoxia Assessment Report Series
21. The Potential Impacts of Climate Change on Coastal and Marine Resources



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### Coastal Ocean Program



### Science for Solutions

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**Funding Announcements**

**Grants Information**

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**COP Publications**

**Historical Projects**

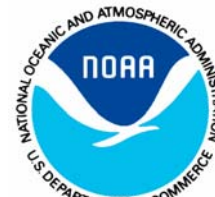
NOAA's Center for Sponsored Coastal Ocean Research (CSCOR)/Coastal Ocean Program (COP), part of the [National Centers for Coastal Ocean Science](#) (NCCOS), provides scientific information to assist decision makers to meet the challenges of managing our Nation's coastal resources. CSCOR/COP targets critical issues which exist in the Nation's estuaries, coastal waters, and Great Lakes. CSCOR/COP translates its findings into accessible information for coastal managers, planners, lawmakers, and the public. Its aim is to create near-term and continuous improvements in environmental decisions affecting the coastal ocean and its resources.

The Coastal Ocean Program provides a focal point through which the agency, together with other organizations with responsibilities for the coastal environment and its resources, can make significant strides toward finding the solutions that will protect coastal resources and ensure their availability and well-being for future generations.

Internet



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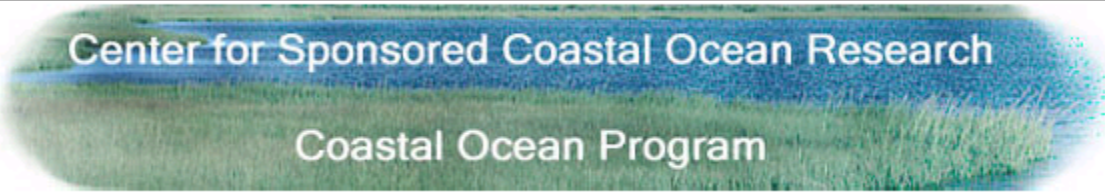



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## Grants Information

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### INTRODUCTION

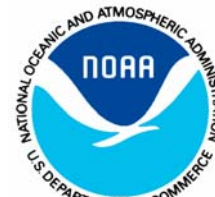
This website contains the necessary instructions and forms for preparation of an application package for a NOAA Coastal Ocean Program (COP) proposal submission. The information package provided here is taken from the current standard NOAA Grants & Cooperative Agreement Application Package released by the NOAA Grants Management Division.

Please note that it is unlawful to use Federal financial assistance awards for any activities or contacts to influence legislation pending before Congress or the

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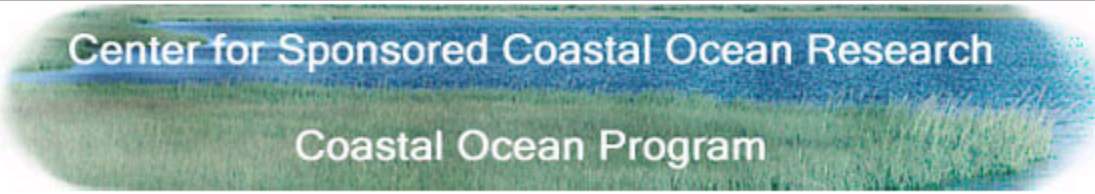



Application Forms for Initial Proposal Submission - Microsoft Internet Explorer

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Address [http://www.cop.noaa.gov/Grants/initial\\_submission.htm](http://www.cop.noaa.gov/Grants/initial_submission.htm) Go Links



## Application Forms for Initial Proposal Submission

For application instructions, see *Required Elements* section in Current Funding Announcement in the Federal Register. Work with your Business office representative to ensure a complete application package. **Blue ink is suggested for all original signatures.**

*Required COP Forms* (Use Acrobat Reader to View, Fill, & Print COP Forms)

- [Summary Proposal Budget](#)
- [Project Summary Abstract](#)

*Required Standard NOAA Forms* (Use Acrobat Reader to View, Fill, & Print Standard Forms)

- [SF-424](#): Application for Federal Assistance (In Block 10, put CFDA number 11.478 -

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## **COP Great Lakes Research Issues Workshop**

- Identify & Prioritize Great Lakes Research Issues
- Strive Toward Consensus on Priorities
- Build Upon Previous Research (e.g., EEGLE)
- Update Issues ID at 1992 Ypsilanti Workshop
- Develop Framework for Potential Future Initiative